

Abstract

The present invention provides a method of high efficient slagging-off for liquid iron and a device for implementing said method. The two wings of slag rake mounted to the front end of cantilever makes swing movement respectively along the surface of liquid iron. When gradually moving close to each other, they get put together and clamp the solid slag. Then, driven by the cantilever, the two slag rakes move back to the vicinity of the edge of the liquid iron ladle and discharge the slag. The deslagging rate can reach over 90%. It just takes less than 3 minutes for the whole process of slagging-off. Additionally, the iron carried away in the process of slagging-off could be greatly reduced. The iron loss rate can be strictly controlled within 0.1%.